

We claim:

1. A composition for delivery of a therapeutic, prophylactic or diagnostic agent comprising:
 - a nanoparticulate carrier comprising therapeutic, prophylactic or diagnostic agent to be delivered, and
 - a targeting molecule bound to the surface of the carrier,
 - wherein the carrier is targeted to a specific population of cells where the agent is to be delivered.
2. The composition of claim 1 wherein the carrier is selected from the group consisting of liposomes and microparticles.
3. The composition of claim 2 wherein the microparticles are formed of the agent to be delivered.
4. The composition of claim 2 wherein the microparticles are formed of a polymeric material.
5. The composition of claim 1 wherein the agent to be delivered is a cytotoxic compound.
6. The composition of claim 1 wherein the targeting molecule is a hormone.
7. The composition of claim 1 further comprising a gel enhancing uptake of the carrier into a cell.
8. A method of delivering a therapeutic, prophylactic or diagnostic agent comprising administering to a patient or tissue the composition of any of claims 1-7.
9. The method of claim 8 wherein the composition is administered to sterilize an animal.
10. The method of claim 8 wherein the composition is administered to treat cancer or endometriosis.
11. The method of claim 8 wherein the composition is administered by injection.
12. The method of claim 8 wherein the composition is administered by pulmonary or intranasal or intravaginal or intrarectal delivery.